AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior listings of claims:

LISTING OF CLAIMS:

1-16. (Cancelled)

17. (Currently Amended) An apparatus, comprising:

at least one processor;

at least one memory containing executable instructions which when executed performs operations comprising:

receiving at least one of a plurality of capacity request messages from a subscriber station;

~~granting means for~~ granting a transmission capacity to ~~a specific~~ the subscriber station;

~~transmitting means for~~ transmitting a capacity grant message ~~messages~~ to ~~at least one~~ the subscriber station;

~~monitoring means for~~ monitoring the at least one of the plurality of capacity request messages received from the ~~at least one~~ subscriber station, the capacity grant ~~messages~~ message sent by a base station, and a data transmission ~~transmissions~~ received from the ~~at least one~~ subscriber station,

wherein the at least one of the capacity request messages comprises an aggregate capacity request message comprising information based on a previous capacity request message sent by the ~~at least one~~ subscriber station; and

determining whether a mismatch exists between the granted transmission capacity and the data transmission received from the subscriber station based on information included in the aggregate capacity request message received from the subscriber station, the capacity grant message sent to the subscriber station, and the data transmission received from the subscriber station

~~avoiding means for avoiding a mismatch between a granted capacity and data received from the subscriber station due to a collision preventing receipt at the base station of the initial transmission of the previous capacity request~~.

18. – 24. (Cancelled)

25. (Currently Amended) An apparatus, comprising:

~~a transmitter configured to transmit capacity request messages of at least one connection; and~~

[[a]] at least one processor;

at least one memory containing executable instructions that when executed ~~configured to~~ provide operations comprising:[[,]]

~~allocate~~ allocating connection-specifically a capacity granted by a base station[[,]];

~~transmit~~ transmitting at least one of a plurality of capacity request messages, wherein the at least one of the capacity request messages ~~comprise~~ comprises an aggregate capacity request message comprising information based on a previous capacity request message sent by the subscriber station, wherein the aggregate message is sent ~~information based on the~~

~~previous capacity request message is transmitted~~ to ~~avoid~~ overcome a mismatch caused by a collision preventing receipt of the ~~initial transmission of the~~ previous capacity request message [[,]]; and

~~transmit~~ transmitting data from a subscriber station to the base station according to [[a]] the capacity allocation made by the subscriber station.

26 – 55. (Cancelled)

56. (Currently Amended) A method, comprising:

transmitting at least one of a plurality of capacity request messages of at least one connection;

receiving a capacity grant ~~messages~~ message from a base station, the capacity grant ~~messages~~ message monitored by the base station;

connection-specifically allocating [[a]]the capacity granted by the base station;

transmitting the at least one capacity request ~~messages~~ message, wherein the at least one of the capacity request messages ~~comprise~~ comprises an aggregate capacity request message comprising information based on a previous capacity request message ~~of a~~ sent by a subscriber station, wherein the aggregate message is sent ~~information based on the previous capacity request message is transmitted~~ to ~~avoid~~ overcome a mismatch caused by a collision preventing receipt of the ~~initial transmission of the~~ previous capacity request message; and

transmitting data from the subscriber station to the base station according to ~~a capacity~~ the connection-specific allocation made by the subscriber station.

57. (Cancelled)

58. (Currently Amended) The method of claim 56, wherein the transmitting comprises transmitting an ~~update~~updated capacity request message that replaces, at the base station, [[a]] previous capacity request information with aggregate capacity request information connection-specifically.

59. (Currently Amended) The method of claim 56, wherein the transmitting comprises transmitting an ~~update~~updated capacity request message that replaces information based on need for bandwidth for a connection.

60. (Previously Presented) The method of claim 56, further comprising:

transmitting update messages comprising information based on previous capacity requests, wherein the update messages replace at the base station previous information on a connection.

61. (Currently Amended) A method, comprising:

receiving at least one of a plurality of capacity request messages from a subscriber station;

granting a transmission capacity to ~~a specific~~ the subscriber station;

transmitting a capacity grant message ~~messages~~ to ~~at least one~~ the subscriber station; ~~and~~

monitoring the at least one of the plurality of capacity request messages received from the ~~at least one~~ subscriber station, the capacity grant message ~~messages~~ sent by a base station, and data transmission ~~transmissions~~ received from the ~~at least one~~ subscriber station,

wherein the at least one of the capacity request messages comprises an aggregate capacity request message comprising ~~comprises~~ information based on a previous capacity request message sent by the ~~at least one~~ subscriber station, and

determining whether a mismatch exists between the granted transmission capacity and the data transmission received from the subscriber station based on information included in the aggregate capacity request message received from the subscriber station, the capacity grant message sent to the subscriber station, and the data transmission received from the subscriber station

~~wherein the monitoring comprises using information based on the capacity request messages, the capacity grant messages, and the received transmissions for avoiding a mismatch between a granted capacity and data transmissions received from the subscriber station due to a collision preventing receipt at the base station of the initial transmission of the previous capacity request.~~

62. (Previously Presented) The method of claim 61, further comprising:

monitoring data based on messages and transmissions using a memory table.

63. (Cancelled)

64. (Currently Amended) A computer program embodied on a non-transitory computer-readable medium, the computer program configured to control a processor to perform operations comprising:

transmitting at least one of a plurality of capacity request messages of at least one connection;

receiving a capacity grant message ~~messages~~ from a base station, the capacity grant message ~~messages~~ monitored by the base station;

connection-specifically allocating [[a]]the capacity granted by the base station;

transmitting at least one of the capacity request messages wherein the at least one capacity request [[the]] messages ~~comprise~~ comprises an aggregate capacity request message comprising information based on a previous capacity request message sent by ~~of~~ a subscriber station, wherein the ~~information based on the~~ aggregate message is sent ~~previous capacity request message is transmitted~~ to ~~avoid~~ overcome a mismatch caused by a collision preventing receipt of the ~~initial transmission of the~~ previous capacity request message; and

transmitting data from the subscriber station to the base station according to [[a]] the capacity allocation made by the subscriber station.

65. (Currently Amended) The computer program of claim 64, further comprising:

transmitting an ~~update~~updated capacity request message ~~messages~~ comprising information based on a previous capacity request message, wherein the ~~update~~updated message ~~messages replace~~ replaces at the base station previous capacity request information on a connection.

66. (Currently Amended) A computer program embodied on a non-transitory computer-readable medium, the computer program configured to control a processor to perform operations comprising:

~~Transmitting~~ receiving at least one of a plurality of capacity request messages of at least one connection from a subscriber station;

granting a transmission capacity to ~~a specific~~ the subscriber station;

transmitting a capacity grant message ~~messages~~ to ~~at least one~~ the subscriber station; and

monitoring the at least one of the plurality of capacity request messages received from the ~~at least one~~ subscriber station, the capacity grant message ~~messages~~ sent by a base station, and data transmission ~~transmissions~~ received from the ~~at least one~~ subscriber station,

wherein at least one of the capacity request messages comprises an aggregate capacity request message comprising information based on a previous capacity request message sent by the ~~at least one~~ subscriber station, and

determining whether a mismatch exists between the granted transmission capacity and the data transmission received from the subscriber station based on information included in the aggregate capacity request message received from the subscriber station, the capacity grant message sent to the subscriber station, and the data transmission received from the subscriber station

~~wherein the monitoring comprises using information based on the aggregate capacity request messages, the capacity grant messages and the received transmissions for avoiding a mismatch between a granted capacity and data received from a subscriber station due to a collision preventing receipt of the initial transmission of the previous capacity request.~~

67. (Currently Amended) The computer program of claim 66, further comprising:

receiving an ~~update~~updated capacity request message ~~messages~~ comprising information based on the aggregate ~~previous~~ capacity request ~~requests~~, wherein the ~~update~~updated capacity request message ~~messages replace~~ replaces previous information on a connection.

68. (Currently Amended) The apparatus of claim 17, wherein the monitoring ~~means monitors data~~ is based on messages and transmissions using a memory table.

69. – 70. (Cancelled)

71. (Currently Amended) The apparatus of claim 17, further comprising:

~~means for~~ transmitting an ~~update~~updated capacity request message ~~messages~~ comprising information based on a previous capacity ~~requests~~ request message, wherein the ~~update~~updated message ~~messages replace~~ replaces at the base station previous information with aggregate information on a connection.

72. (Cancelled)

73. (Currently Amended) The apparatus of claim 25, wherein the transmitter is further configured to transmit an updated capacity request message ~~messages~~ comprising information based on [[a]] an aggregate ~~previous~~ capacity ~~requests~~ request message, wherein the updated message replaces ~~update messages replace~~ at the base station previous information on a connection.

74. – 75. (Cancelled)